



The ELM Microgrid Turnkey Package is shipped as a self-contained unit and can be installed outdoors or indoors.



100 KWH Home Series pictured
72"H x 72"W x 27"D

MICROGRID 1-Phase 9/18/36kW PACKAGE

Turnkey Solution

- Factory Assembled
- Pre-Engineered
- Pre-Wired
- Pre-Installed Safety Labels
- Pre-Tested

Managed Assets

- Solar Generation
- Distributed Battery Storage
- Diesel, Propane & Nat Gas Generators
- CHP Systems
- Grid Power

Communications & Control

- 4G LTE Cellular
- Ethernet and Wifi
- Building Management
- Generator Start and Stop
- Optimal Power Forecasting
- Power Reliability Alerts
- Isochronous Generation Control

The Switch Advantage

- Turnkey Solution
- Indoor and Outdoor Enclosure Options
- Climate Control
- Fire Suppression Options
- Microgrid Installation and O&M Guides



Microgrid 9/18/36 TECHNICAL SPECIFICATIONS

Electrical Specifications

Single Phase Operation

AC Voltage	240 VAC
AC Input/Output Current	41/83/166 A
AC Output Power (<i>kVA discharge</i>)	10/20/40kVA
AC Output Power (<i>kW discharge</i>)	9/18/36kW Continuous
AC Output Power (<i>kVA charge</i>)	10/20/40kVA
AC Input Power (<i>kW charge</i>)	9/18/36kW Continuous
Battery Capacity	33.6 kWh
Expansion Battery Units	33.6 kWh Each
Max System Capacity	134.4 kWh
AC Frequency	50 Hz & 60 Hz
Max AC Overcurrent	51/103/200 A
AC Override Bypass	200 A
Peak Efficiency	93%
AC Connection	Split Phase 3 Wire L1, L2, N
Battery Chemistry	LiFePO4 (Non-Hazardous)
Cycle Life	6000 Cycles @ 90% DOD 4500 Cycles @ 100% DOD
System Life	10+ Year

Certifications

Batteries	UL 1973
Inverter	UL 1778

Control Software

ELM FieldSight Controller Built In
Access & Alerts on Desktop & Mobile 24/7
Asset Monitoring System Level & Individual
Individual Microgrid Component Pages
Built in HMI Touchscreen
Communications: Ethernet, Cellular

Operation Parameters

Off Grid MicroGrid	Black Start Solar Integration Generator Integration
Grid Tied MicroGrid	Peak Shaving Seamless Back Up Demand Response Time of Use Shift

Equipment Specifications

External Dimensions Main	72"H x 24"W x 27"D
Weight	1000/2000/4000 lbs.
Lifting Provisions	Built in Casters Dolly
Expansion Battery Module Dimensions	72"H x 24"W x 27"D
Cabinet	Indoor Rated Available Outdoor NEMA Upgrade
Temperature Range	Standard NEMA Outdoor
	0°C to 50°C -20°C to 55°C

For higher power or storage requirements multiple systems can be paralleled and additional energy storage containers can be added. Please contact Switch Storage for more details.



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